

Service Manual

Simplified

Telephone Equipment

KX-TS10RU-W

Integrated Telephone System

White Version

Data Port 

(for Russia)

Please file and use this manual together with the Service Manual for model KX-TS10-W order No. KM49711210C1.

This Service Manual indicates the main differences between: Original KX-TS10-W and KX-TS10RU-W.

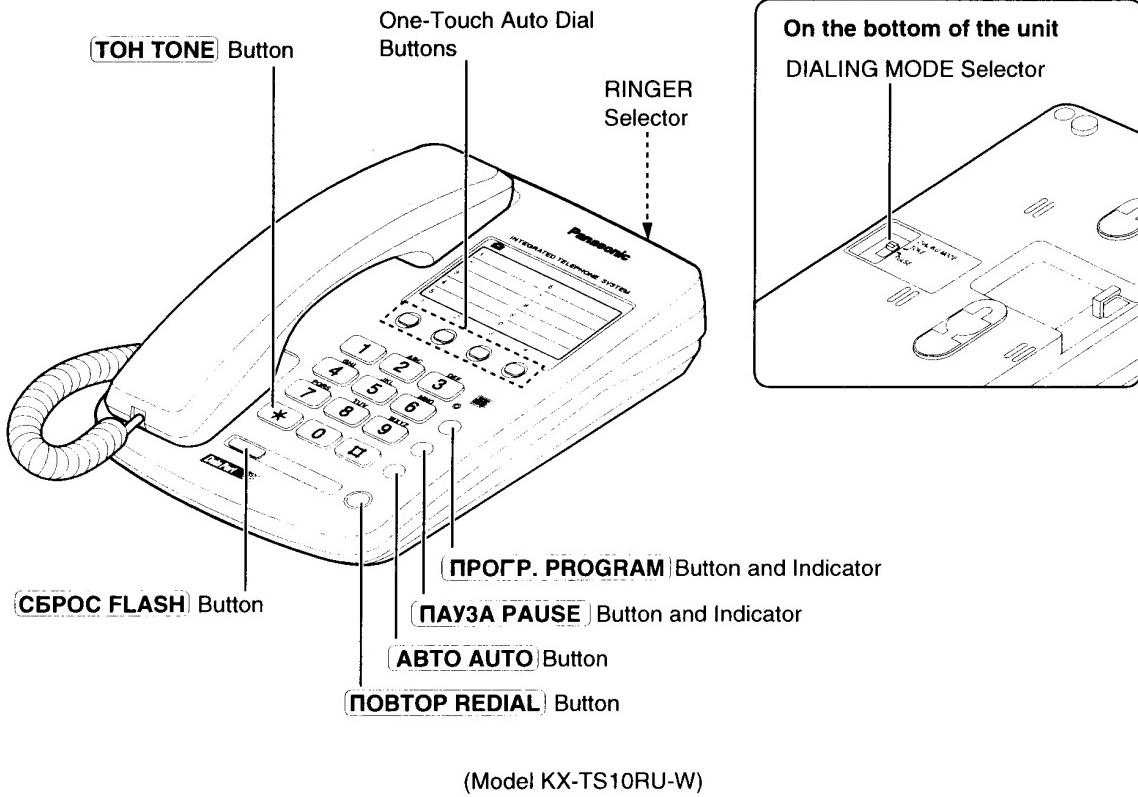
WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians.
Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

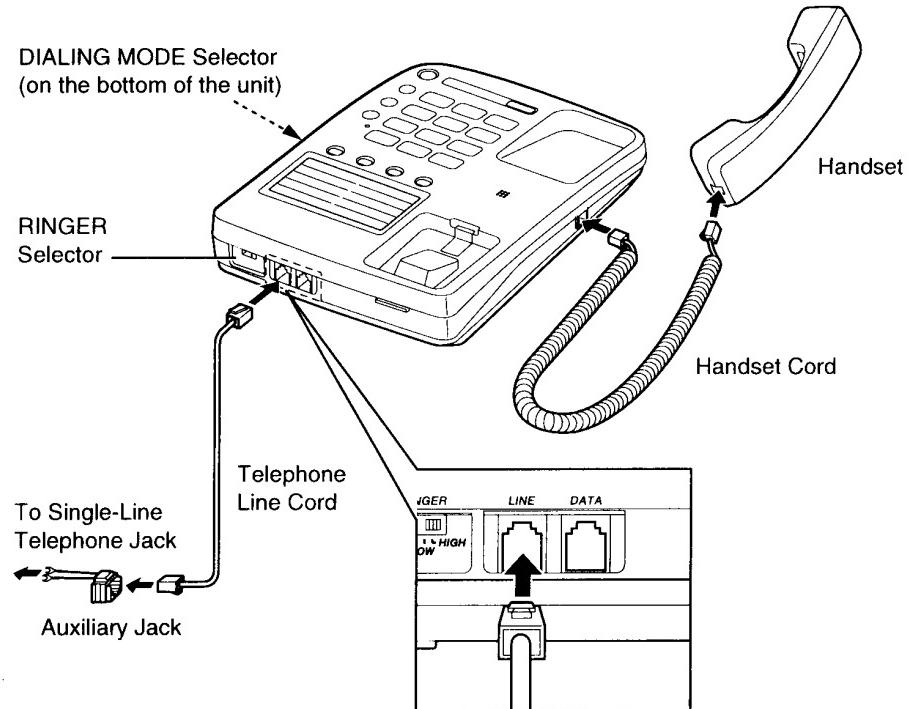
Panasonic

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■ CONNECTION [Change from original page 3]

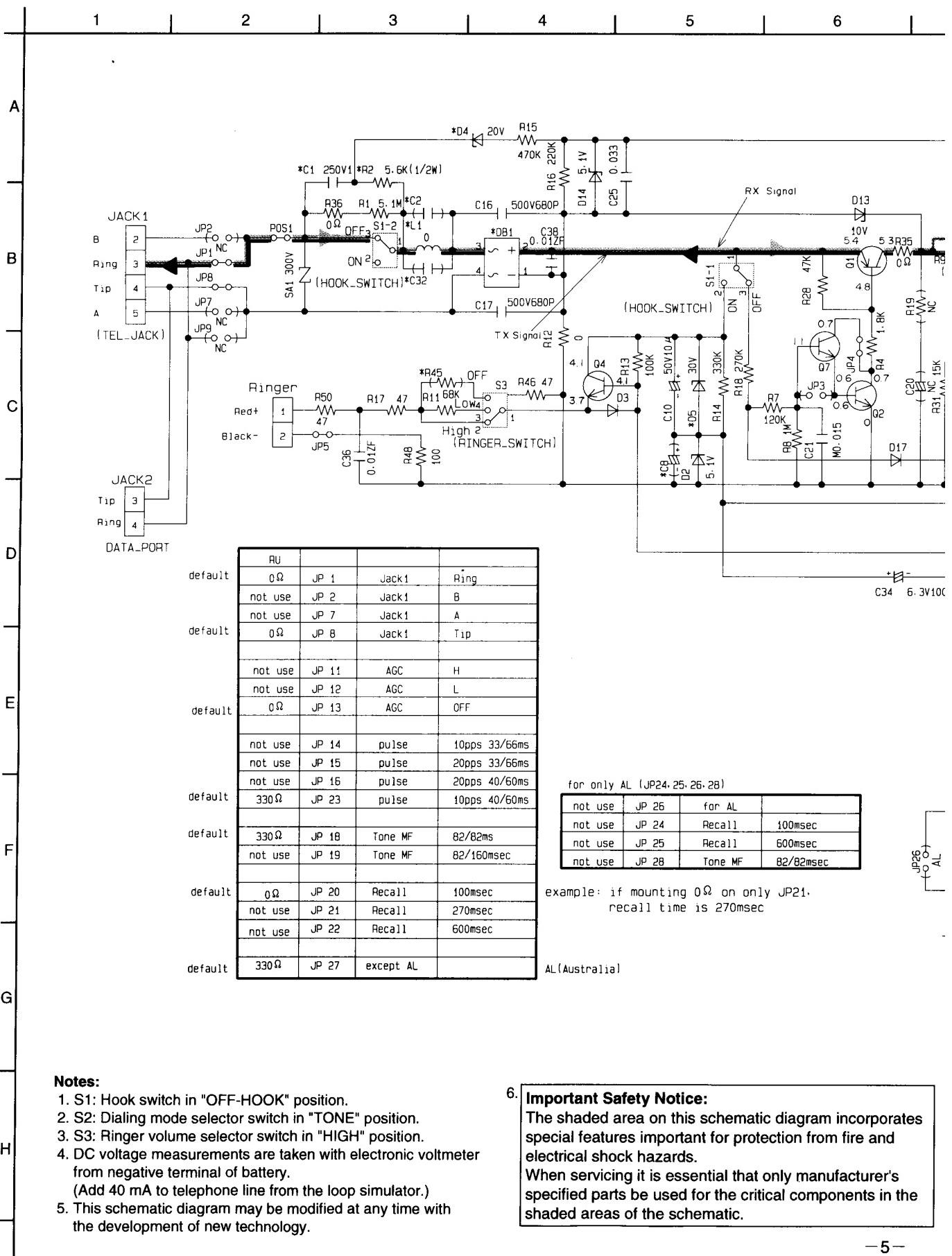


■ CONNECTION [Change from original page 3]



(Model KX-TS10RU-W)

SCHEMATIC DIAGRAM [C]



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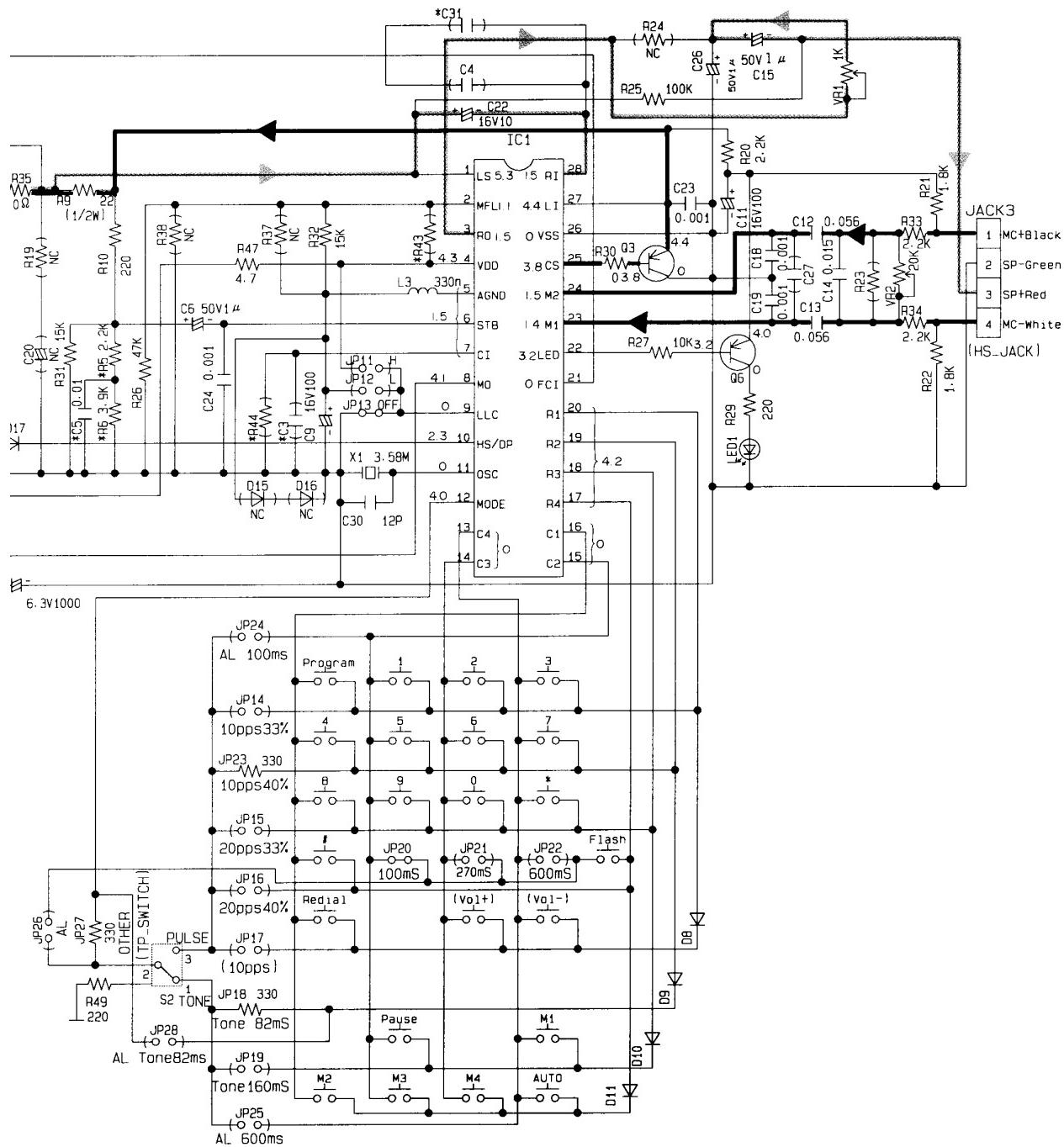
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This replacement parts list is only for the model : KX-TS10RU-W

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REPLACEMENT PARTS LIST

KX-TS10RU-W

1. RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is limited for this item.

After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability depends on the type of assembly and the laws governing parts and product retention. At the end of this period, the assembly will no longer be available.

2. Important safety notice

Components identified by the Δ mark indicates special characteristics important for safety. When replacing any of these components, only use specified manufacturer's parts.

3. The S mark indicates service standard parts and may differ from production parts.

4. RESISTORS & CAPACITORS

Unless otherwise specified;

All resistors are in ohms (Ω) K=1000 Ω , M=1000K Ω

All capacitors are in MICRO FARADS (μF) P= $\mu\mu F$

*Type & Wattage of Resistor

Type

ERC:Solid	ERX:Metal Film	PQ4R:Carbon
ERD:Carbon	ERG:Metal Oxide	ERS:Fusible Resistor
PQRD:Carbon	ERO:Metal Film	ERF:Cement Resistor

Wattage

10,16:1/8W	14,25:1/4W	12:1/2W	1:1W	2:2W	3:3W
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*Type & Voltage of Capacitor

Type

ECFD:Semi-Conductor	ECCD,ECKD,ECBT,PQCBC : Ceramic
ECQS:Styrol	ECQE,ECQV,ECQG : Polyester
PQCUV:Chip	ECEA,ECSZ : Electrolytic
ECQMS:Mica	ECQP : Polypropylene

Voltage

ECQ Type	ECQG ECQV Type	ECSZ Type	Others		
1H: 50V	05: 50V	0F:3.15V	0J :6.3V	1V :35V	
2A:100V	1:100V	1A:10V	1A :10V	50,1H:50V	
2E:250V	2:200V	1V:35V	1C :16V	1J :63V	
2H:500V		0J:6.3V	1E,25:25V	2A :100V	

Ref. No.	Part No.	Part Name & Description	Pcs/Set
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ACCESSORIES

A 1	PQJA10075Z	TELEPHONE LINE CORD	1
A 2	PQJA212M	HANDSET CORD	1
A 3	PQQW12046Z	LEAFLET	1
A 4	PQQX12042Z	INSTRUCTION BOOK	1
A 5	PQJJ1TA8Z	TEL PLUG	1
H 1	PQJX2PJAL13Z	HANDSET ASS'Y	1

PACKING MATERIALS

P 1	PQPK12698Z	GIFT BOX	1
P 2	PQPN10611Z	INNER BOX	1
P 3	PQPP10076Z	PROTECTION COVER (for Unit)	1
P 4	PQPP34Z	PROTECTION COVER (for Handset)	1

MAIN PRINTED CIRCUIT BOARD PARTS

PCB1	PQWPTS10RUW	MAIN P.C.BOARD ASS'Y (RTL)	1
IC1	PQVIAS2533T	(ICS) IC	1
Q 1	2SA1626	(TRANSISTORS) TRANSISTOR(SI)	1
Q 2	2SD662B	TRANSISTOR(SI)	1
Q 3	2SB1322	TRANSISTOR(SI)	1
Q 4	2SC1740S	TRANSISTOR(SI)	1
Q 6	2SA933	TRANSISTOR(SI)	1
Q 7	2SD662B	TRANSISTOR(SI)	1
D 2	MA4051	(DIODES) DIODE(SI)	1
D 3	1SS119	DIODE(SI)	1
D 4	MA4200	DIODE(SI)	1
D 5	MA4300	DIODE(SI)	1
D 8	1SS119	DIODE(SI)	1
D 9	1SS119	DIODE(SI)	1
D10	1SS119	DIODE(SI)	1
D11	1SS119	DIODE(SI)	1
D13	MA4100	DIODE(SI)	1
D14	MA4051	DIODE(SI)	1
D17	MA110	DIODE(SI)	1
DB1	PQVD0R5G4B42	DIODE(SI)	1
LED1	PQVDSML210L	LED	1
L 3	PQLQZMR33K	(COILS) COIL	1

Ref. No.

JACK1
JACK2
JACK3

S1
S2
S3

E1
SA1
VR1
VR2
X1

R 1
R 2
R 4
R 5
R 6
R 7
R 8
R 9

R10
R11
R13
R14
R15
R16
R17
R18

R20
R21
R22
R25
R26
R27
R28
R29
R30
R31
R32
R33
R34
R46

KX-TS10RU-W

This replacement parts list is only for the model : KX-TS10RU-W

Ref. No.	Part No.	Part Name, Description, & Value	Pcs/Set
JACK1	PQJJ1TA15Z	(JACKS) JACK, TEL	S 1
JACK2	PQJJ1TA15Z	JACK, DATA	S 1
JACK3	PQJJ1TB2Y	JACK, HANDSET	1
S1	PQSH2B103Z	(SWITCHES) SWITCH, HOOK	1
S2	PQSS2A103Z	SWITCH, DIALING MODE SELECTOR	1
S3	PQSS3A17W	SWITCH, RINGER SELECTOR	1
E1	PQEFPKM34E1	(OTHERS) BUZZER	1
SA1	PQVDDSS301L	VARISTOR	1
VR1	EVNDXAA03B13	VARIABLE RESISTOR	1
VR2	EVNDXAA03B24	VARIABLE RESISTOR	1
X1	PQVBR3.58M	CRYSTAL OSCILLATOR	1
R 1	ERJ6GEYJ515	(RESISTORS) 5.1M	1
R 2	ERDS1TJ562	5.6K	S 1
R 4	PQ4R10XJ182	1.8K	S 1
R 5	PQ4R10XJ222	2.2K	S 1
R 6	PQ4R10XJ392	3.9K	S 1
R 7	PQ4R10XJ124	120K	S 1
R 8	PQ4R10XJ105	1M	S 1
R 9	ERDS1TJ220	22	S 1
R10	PQ4R10XJ221	220	S 1
R11	PQ4R10XJ683	68K	S 1
R13	PQ4R10XJ104	100K	S 1
R14	PQ4R10XJ334	330K	S 1
R15	PQ4R10XJ474	470K	S 1
R16	PQ4R10XJ224	220K	S 1
R17	PQ4R10XJ470	47	S 1
R18	PQ4R10XJ274	270K	S 1
R20	PQ4R10XJ222	2.2K	S 1
R21	PQ4R10XJ182	1.8K	S 1
R22	PQ4R10XJ182	1.8K	S 1
R25	PQ4R10XJ104	100K	S 1
R26	PQ4R10XJ473	47K	S 1
R27	PQ4R10XJ103	10K	S 1
R28	PQ4R10XJ473	47K	S 1
R29	PQ4R10XJ221	220	S 1
R30	PQ4R10XJ000	0	S 1
R31	PQ4R10XJ153	15K	S 1
R32	PQ4R10XJ153	15K	S 1
R33	PQ4R10XJ222	2.2K	S 1
R34	PQ4R10XJ222	2.2K	S 1
R46	ERDS2TJ470	47	1

Ref. No.	Part No.	Value	Pcs/Set
R47	PQ4R10XJ4R7	4.7	S 1
R48	PQ4R10XJ101	100	S 1
R49	ERDS2TJ221	220	1
R50	ERDS2TJ470	47	1
JP4	PQ4R10XJ000	0	S 1
JP13	PQ4R10XJ000	0	S 1
JP18	PQ4R10XJ331	330	S 1
JP20	PQ4R10XJ000	0	S 1
JP23	PQ4R10XJ331	330	S 1
JP27	PQ4R10XJ331	330	S 1
(CAPACITORS)			
C 1	ECQE2E105KZ	1	S 1
C 5	PQCUV1H103KB	0.01	1
C 6	ECEA1HKS010	1	S 1
C 9	ECEA1CK101	100	S 1
C10	ECEA1HKS100	10	S 1
C11	ECEA1CK101	100	S 1
C12	PQCUV1H563KB	0.056	1
C13	PQCUV1H563KB	0.056	1
C14	PQCUV1H153KB	0.015	1
C15	ECEA1HKS010	1	S 1
C16	ECKD2H681KB	680P	S 1
C17	ECKD2H681KB	680P	S 1
C18	PQCUV1H102J	0.001	S 1
C19	PQCUV1H102J	0.001	S 1
C21	PQCUV1H153KB	0.015	1
C22	ECEA1CKS100	10	S 1
C23	PQCUV1H102J	0.001	S 1
C24	PQCUV1H102J	0.001	S 1
C25	PQCUV1E333MD	0.033	S 1
C26	ECEA1HKS010	1	S 1
C30	PQCUV1H120JC	12P	1
C34	ECA0JM102	1000	1
C36	PQCUV1H103ZF	0.01	1
C38	PQCUV1H103ZF	0.01	1